bio-protocol Preprint

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Audio acquisition

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An abbreviated version of this protocol was published in eLIFE in Mar 2021

Analysis of ultrasonic vocalizations from mice using computer vision and machine learning

DOI: 10.7554/eLife.59161

Detailed protocol

Audio acquisition: Pups (experimental and control groups) are separated from the nest and placed individually in a soundproof chamber with new bedding and a UltraSoundGate Condenser Microphone CM 16 (Avisoft Bioacoustics, Berlin, Germany) 10 cm above them for 90 minutes. The microphone is attached to the UltraSoundGate 416 USGH audio device, which records using the software Avisoft RECORDER. Vocal recordings are then analyzed through VocalMat which will count and measure spectral features of calls.

How to cite:（Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used）

1. Fonseca, A. , Santana, G. , Bosque Ortiz, G. , Bampi, S. and Dietrich, M. (2021). Audio acquisition. Bio-protocol Preprint. bio-protocol.org/prep1415.
2. Fonseca, A. H., Santana, G. M., Bosque Ortiz, G. M., Bampi, S. and Dietrich, M. O.(2021). Analysis of ultrasonic vocalizations from mice using computer vision and machine learning. eLIFE. DOI: 10.7554/eLife.59161

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